

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Application Number	10/030,729
Filing Date	June 20, 2002
First Named Inventor	Hill
Art Unit	1646
Examiner Name	J. Murphy M. PRL
Attorney Docket Number	53-99A

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T ²

NON-PATENT LITERATURE DOCUMENTS

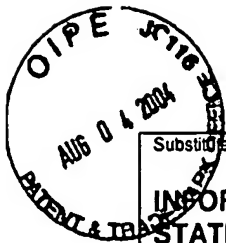
Examiner Initial*	Cite No. ¹	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MDP		Kapitskaya, M. et al. (1996), "The mosquito <i>ultraspiracle</i> homologue, a partner of ecdysteroid receptor heterodimer: cloning and characterization of isoforms expressed during vitellogenesis," Mol. Cell. Endocrinol. 121:119-132	

Examiner Signature	MICHAEL PRL	Date Considered	3-12-06
--------------------	-------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.



Sheet 1 of 1

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/030,729
	Filing Date	June 20, 2002
	First Named Inventor	Hill
	Art Unit	1646
	Examiner Name	J. Murphy - M. PAK
	Attorney Docket Number	53-99A

U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number (US-)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Foreign Patent Document Number (include WIPO country code)	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise)	T ²

NON-PATENT LITERATURE DOCUMENTS

		REFERENCE		T ²
Examiner Initial*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
MDP		Halling, B.P. et al. (July 1999), "Expression and Purification of the Hormone Binding Domain of the <i>Drosophila</i> Ecdysone and Ultraspiracle Receptors," Protein Expression Purification 17:373-386		
↑		Hannan, G.N. and Hill, R.J. (June 2001), " <i>Lcusp</i> , an <i>ultraspiracle</i> gene from the sheep blowfly, <i>Lucilia cuprina</i> : cDNA cloning, developmental expression of RNA and confirmation of function," Insect Biochem. Mol. Biol. 31:771-781		
		Li, Ch et al. (March 1997), "Coexpression of nuclear receptor partners increases their solubility and biological activities," Proc. Natl. Acad. Sci. USA 94:2278-2283		
		Palli, S.R. et al. (Feb. 1999), "Biochemical and biological mode of action of ecdysone agonists on the spruce budworm," Pestic. Sci. 55:633-675		
		Perera, S.C. et al. (pub. on-line May1999), "An Analysis of Ecdysone Receptor Domains Required for Heterodimerization With Ultraspiracle," Arch. Insect Biochem. Physiol 41:61-70		
↓		Tzertzinis, G. et al. (1994), "BmCF1, a <i>Bombyx mori</i> RXR-type Receptor Related to the <i>Drosophila</i> ultraspiracle," J. Mol. Biol. 238:479-486		
MDP		Yao, T-P. et al. (Oct. 1992), " <i>Drosophila</i> ultraspiracle Modulates Ecdysone Receptor Function via Heterodimer Formation," Cell 71:63-72		

Examiner Signature	MICHAEL PAK	Date Considered	3-12-06
--------------------	-------------	-----------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here or "x" if English language Translation is attached.



1 of 2

Form PTO 1449		
ATTY DOCKET NO. 53-99A	SERIAL NO. 10/030,729	FILING DATE June 20, 2002
APPLICANT Hill and Hannan		GROUP 1646

U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
MDP	5,688,691	11/18/97	Oro et al.	455	348	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No

RECEIVED

JUL 23 2003

TECH CENTER 1600/2900

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

MDP			Cho, W-L. et al. (1995) "Mosquito Ecdysteroid Receptor: Analysis of the cDNA and Expression During Vitellogenesis"; <i>Insect Biochem. Molec. Biol.</i> 25(1):19-27.
↑			Database Swallprot 'Online! "Ecdysone receptor, Aedes aegypt"; Database Accession No. P49880. XP-002216321.
			Guo, X. et al. (1998). "Isolation of two functional retinoid X receptor subtypes from the Ixodid tick, <i>Amblyomma americanum</i> (L.)"; <i>Molecular and Cellular Endocrinology</i> 139(1-2):45-60.
			Database Swallprot 'Online! 1August 1998 "Retinoid X receptor, Amblyomma americanum"; Database Accession No. 061448. XP-002228988.
↓			Jindra, M. et al. (1997) "Identification and mRNA developmental profiles of two ultraspiracle isoforms in the epidermis and wings of <i>Manduca sexta</i> "; <i>Insect Molecular Biology</i> 6(1):41-53.
MDP			Database Swallprot 'Online! 1 October 1996 "Ultraspiracle protein homolog, <i>Manduca sexta</i> "; Database Accession No. P54779. XP-002228984.

MICHAEL PAK

3-12-06

Form PTO 1449		
ATTY DOCKET NO. 53-99A	SERIAL NO. 10/030,729	FILING DATE June 20, 2002
APPLICANT Hill and Hannan		GROUP 1646

MPP			Mouillet, J-F. et al. (1997) "Cloning of two putative ecdysteroid receptor isoforms from <i>Tenebrio molitor</i> and their developmental expression in the epidermis during metamorphosis"; <i>European Journal of Biochemistry</i> 248:856-863.
↑			Database Swallprot 'Online! 1 July 1997 "Ecdysone receptor, <i>Tenebrio molitor</i> "; Database Accession No. 002035. XP-002228986.
			Oro, A.E. et al. (1990) "Relationship between the product of the <i>Drosophila ultraspiracle</i> locus and the vertebrate retinoid X receptor"; <i>Nature</i> 347(6290):298-301.
			Yao, T-P. et al. (1993) "Functional ecdysone receptor is the product of <i>EcR</i> and <i>Ultraspiracle</i> genes"; <i>Nature</i> 366(6454):476-479.
			Database Swallprot 'Online! 1 February 1991 retrieved from EBI. Database Accession No. P20153. XP-002228982, Ultraspiracle protein, <i>Drosophila melanogaster</i> ..
↓			Database Empat 'Online! 7 April 1998 retrieved from EBI. Database Accession No. 174629. XP-002228983, Sequence from U.S. Patent 5,688,691.
MPP			Database Swallprot 'Online! 1 February 1997 "Ultraspiracle homolog, <i>Riptortus clavatus</i> "; Database Accession No. Q94730. XP-002238987.

EXAMINER	MICHAEL PAUL	DATE CONSIDERED	3-12-06
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>			

12/20/89

RECEIVED
JUL 23 2003
TECH CENTER 1600/2900



RECEIVED

JAN 17 2003

Sheet 1 of 5

Form PTO-1449		
ATTY DOCKET NO.: 53-99A	SERIAL NO.: 10/030,729	FILING DATE: January 2, 2002
APPLICANT: Hill and Hannan		GROUP: 1645 1646

Originally filed in 09/346,470

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
MDP	6,025,483	02/15/00	Yanofsky	536	23.6	06/15/96

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
MDP	WO 99/36520	07/22/99	PCT	C12N 15/12		
MDP	WO 99/48915	09/30/99	PCT	C07K 14/00		

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

MDP			GenPept, Accession no. AAB94565, (Submitted Aug. 1997), Guo et al., Amblyomma americanum ecdysteroid receptor (AamEcRA3) mRNA, complete cds.
↑			GenPept, Accession no. AAB94566, (Submitted Aug. 1997), Guo et al., Amblyomma Americanum ecdsyteroid receptor (AamEcRA1) mRNA, complete cds.
			GenPept, Accession no. AAC59721, (1995), Jones et al., Danio rerio retinoid X receptor delta (RXR-delta (RXR-delta) mRNA, complete cds.
			GenPept, Accession no. AAC59722, (1995), Jones et al., Danio rerio retinoid X receptor epsilon (RXR-epsilon) mRNA, complete cds.
			GenPept, Accession no. AAC95154, (Submitted Oct. 1998), Vaillancourt et al., Cloning vector pERV3, complete sequence.
↓			GenPept, Accession no. AAD19828, (Submitted Feb. 1998), Saleh et al., Locusta migratoria ecdysone receptor mRNA, complete cds.
MDP			GenBank, Accession no. CAA36827, (1990), Henrich, V.C. Steroid hormone receptor-like protein (AA 1-507) [Drosophila melanogaster].



Sheet 2 of 5

Form PTO-1449		
ATTY DOCKET NO.: 53-99A	SERIAL NO.: 10/030,729	FILING DATE: January 2, 2002
APPLICANT: Hill and Hannan		GROUP: 1645-1646

Originally filed in 09/346,470

MDP		GenPept, Accession no. CAA72296, Mouillet J.F., Tenebrio molitor mRNA for ecdysone receptor.
↑		Swiss-Prot, Accession no. 018531, (Submitted Dec. 1998), Hannan, G.N. and Hill, R.J., Lucilia cuprina Ecdysone Receptor
		Swiss-Prot, Accession no. P19793, (Submitted Feb. 1991), Manglesdorf et al., Retinoic acid receptor RXR-ALPHA, Homo sapiens
		Swiss-Prot, Accession no. P28700, (Submitted Dec. 1992), Leid et al., Retinoic acid receptor RXR-ALPHA, Mus musculus
↓		GenBank, Swiss-Prot, Accession no. P34021, (Submitted Feb. 1994), Koelle et al., Ecdysone receptor (Ecdysteroid receptor), Drosophila melanogaster.
MDP		Swiss-Prot, Accession no. P20153, (Submitted Feb. 1991), Oro et al., Ultraspiracle protein, Drosophila melanogaster.

EXAMINER

MICHAEL PAUL

DATE CONSIDERED

3-12-06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

12/20/89

RECEIVED
JAN 17 2003
TECH CENTER 1600/2900



Form PTO 1449		
ATTY DOCKET NO. 53-99A	SERIAL NO. 10/030,729	FILING DATE 6/20/02
APPLICANT Hill and Hannan		GROUP 1645/1646

Originally filed in 09/346,470

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
MDP	5,352,451	10/04/94	Miller et al.	424	93.2	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
MDP	98/35550	20.08.98	WO	A01M		
↑	97/38117	16.10.97	WO	C12N	15/85	
↓	96/37609	28.11.96	WO	C12N	15/12	
↓	93/03162	18.02.93	WO	C12N	15/85	
MDP	91/13167	05.09.91	WO	C12P	21/06	

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

MDP		Elbrecht et al. (1996), "8-O-Acetylharpagide is a nonsteroidal ecdysteroid agonist," <i>Insect Biochem. Molec. Biol.</i> 26:519-523
↑		Fujiwara et al. (1995) "Cloning of an ecdysone receptor homolog from <i>Manduca sexta</i> and the developmental profile of its mRNA in wings," <i>Insect Biochem. Molec. Biol.</i> 25:845-856
		Hannan and Hill (1997) "Cloning and characterization of LcEcR ¹ : a functional ecdysone receptor from the sheep blowfly <i>Lucilia cuprina</i> ," <i>Insect Biochem. Molec. Biol.</i> 27:479-488
↓		Ishaaya et al. (1995) "Comparative toxicity of two ecdysteroid agonists, RH-2485 and RH-5992 on susceptible and pyrethroid-resistant strains of the Egyptian cotton leafwork, <i>Spodoptera littoralis</i> ," <i>Phytoparasitica</i> 23:139-145
MDP		Oberlander et al. (1995) "Non-steroidal ecdysteroid agonists: tools for the study of hormonal action," <i>Archives of Insect Biochemistry and Physiology</i> 28:209-223

EXAMINER	MICHAEL PARK	DATE CONSIDERED	3-12-06
----------	--------------	-----------------	---------



Sheet 4 of 5

Form PTO 1449		
ATTY DOCKET NO. 53-99	SERIAL NO. 10/030,729	FILING DATE 6/20/02
APPLICANT Hill and Hannan		GROUP 1645 1646

U.S. PATENT DOCUMENTS

Exmr Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
MDP	5,514,578	5/7/96	Hogness	435	240.2	
↑	6,110,698	8/29/00	Heinrich	435	29	
	6,245,531	6/12/01	Hogness	435	69.7	
	6,258,603	7/10/01	Carlson	435	468	
↓	6,265,173	7/24/01	Evans	435	7.1	
MDP	6,281,330	8/28/01	Evans	530	324	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
MDP	97/45731	4/12/97	WO	G01N	33/50	No
MDP	97/45737	4/12/97	WO	G01N	33/53	No
MDP	00/15791	23/3/00	WO	C12N	15/12	No

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER	MICHAEL PAX	DATE CONSIDERED	3-12-06
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

12/20/89



Form PTO 1449		
ATTY DOCKET NO. 53-99A	SERIAL NO. 10/030,729	FILING DATE 6/20/02
APPLICANT Hill and Hannan		GROUP 1645-11646

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

mop		Mouillet, "Cloning of two putative ecdysteroid receptor isoforms from <i>Tenebrio molitor</i> and their developmental expression in the epidermis during metamorphosis," (1997) <i>Eur. J. Biochem.</i> , 248:850-863
mop		Mikayama, T., "Molecular cloning and functional expression of a cDNA encoding glycosylation-inhibiting factor," (1993) <i>Proc. Natl. Acad. Sci. USA</i> , 90:10056-10060
mop		Voet et al., <i>Biochemistry</i> 1990, John Wiley & Sons, Inc. pp. 126-128 and 228-234

EXAMINER

MICHAEL PAX

DATE CONSIDERED

3-17-86

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.